



Issued Date: Oct. 22, 2009 CMO Model No.: V315B6 -C02

Approval

# TFT LCD Approval Specification FUNAI MODELNO.TLCD10CME011 MODEL NO.: V315B6-C02

## **RoHS Verified**

Customer: FUNAI	
Approved by:	
Note:	

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**Record of Revision** 





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## Record of Revision

Version	Date	Page (New)	Section	Record of Revision  Description
Ver 2.0	Oct. 7,'09	All	All	Approval Specification was first issued.





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## 1.0 Handling Precautions

- The LCD panel is made of glass and may break or crack if dropped on a hard surface. It is necessary to handle it carefully.
- Since front polarizer is easily damaged, pay attention not to scratch it.
- When the panel surface is soiled, wipe it with absorbent cotton or other soft cloth gently.
- Do not touch the front screen surface when assembling.

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## 2.0 General Description

This specification is applied to the Type V315B6 TFT/LCD cell. This cell is designed for a display unit for TV application.

The screen format is intended to support the WXGA (1366(H) x 768(V)) screen

#### 2.1 Characteristics

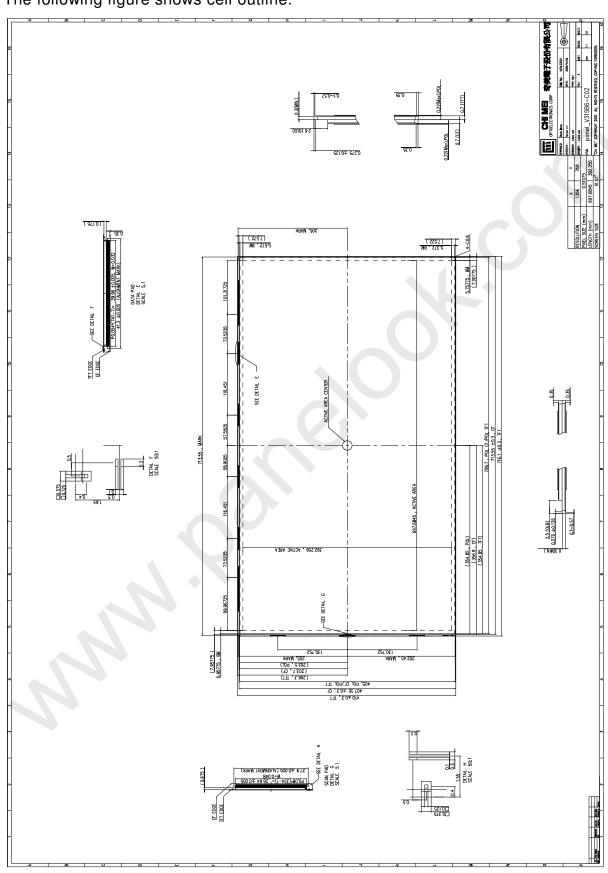
CHARACTERISTICS ITEMS	SPECIFICATIONS
Screen Diagonal [in]	31.5
Pixels [lines]	1366×768
Active Area [mm]	697.6845 (H) x 392.256 (V)
Sub -Pixel Pitch [mm]	0.17025(H) x 0.51075 (V)
Pixel Arrangement	RGB vertical stripe
Weight [g]	TYP. 1125g
Physical Size [mm]	716(W) x 410.8(H) x 2.00(D) Typ.
Display Mode	Transmissive mode / Normally black
Contrast Ratio	(3000:1) Typ.
	(Typical value measured at CMO's module)
Glass thickness (Array/CF) [mm]	0.7 / 0.7
Viewing Angle(CR>20)	+88/-88(H),+88/-88(V) Typ. (CR≥20)
	(Typical value measured at CMO's module)
Color White	Color Filter
	R=(0.642, 0.332)
	G=(0.277, 0.598)
	B=(0.145, 0.066)
	W=(0.285, 0.293)
	*White color is calibrated value measured at Color
	Filter by CMO's module
Cell Transparency [%]	(5.8)%Typ.
	(Typical value measured at CMO's module)
Polarizer (CF side)	Wide View, Anti-glare coating,
	709.7 (W) x 405 (H). Hardness: 3H
Polarizer (TFT side)	Wide View, 709.7 (W) x 405 (H)





#### **Cell Outline**

The following figure shows cell outline.



6



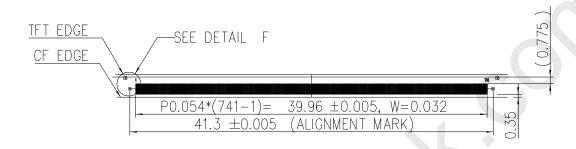


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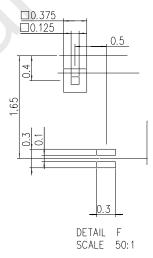
### 3.1 PAD Design

The following figure shows Data & Scan pad design.

[ Data Pad ] Unit [mm]



DATA PAD DETAIL E SCALE 5:1



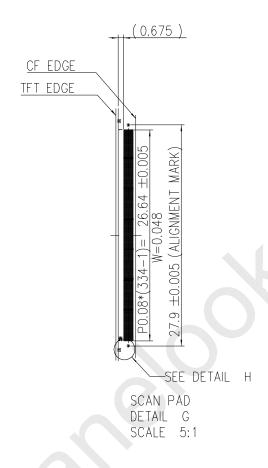


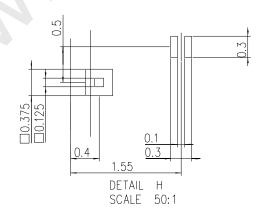


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[ Scan Pad ]

Unit [mm]







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## 3.2 OLB PAD Assignment

**GATE** 

	SCAN1		8 8		SCAN2			SCAN3	
PIN	CELL	INPUT	P	IN	CELL	INPUT	PIN	CELL	INPUT
1	15/07/07/07	TEST	1 1	-	ATST	TEST	X X	ATST	TEST
	120000000000000000000000000000000000000		-	_	- Control of the Cont		3 3	1500000000	
	ATST	TEST	-	_	ATST	TEST	3 3	ATST	TEST
3	RP1	NC			RP1	NC	2 3 2 2 2 2	RP1	NC
4	RP2	NC.		4	RP2	NC	4	RP2	NC
5	VCOM	VCOM	100	5	VCOM	VCOM	5	VCOM	VCOM
6	VCOM	VCOM	1 18	6	VCOM	VCOM	6	VCOM	VCOM
7	STVR	STVR	- 8	7	STVR	STVR	7	STVR	STVR
8	LR	LR	1 1	_	LR	LR	8	LR	LR
9	XAO	XAO	H	9	XAO	XAO	9	XAO	XAO
			- 10	_			3 2		
10	OE	OE	-	10	OE	OE	10	OE	OE
11	CPV	CPV		11	CPV	CPV	11	CPV	CPV
12	STV1	STV1	100	12	STV1	STV1	12	STV1	STV1
13	MODE	MODE		13	MODE	MODE	13	MODE	MODE
14	VSS	VSS	8	14	VSS	VSS	14	VSS	VSS
15	VSS	VSS	- 6	15	VSS	VSS	15	VSS	VSS
16	VDD	VDD	1	16	VDD	VDD	16	VDD	VDD
$\sim$	LOUIS CO.		K	-	(Contract)	20/10/20	X X	00.70777	
17	VDD	VDD	15	17	VDD	VDD	17	VDD	VDD
18	VGL	VGL	-	18	VGL	VGL	18	VGL	VGL
19	VGL	VGL		19	VGL	VGL	19	VGL	VGL
20	VGL	VGL	1	20	VGL	VGL	20	VGL	VGL
21	VGL	VGL		21	VGL	VGL	21	VGL	VGL
22	DUMMY	NC NC		22	DUMMY	NC NC	22	DUMMY	NC
23	VGH	VGH		23	VGH	VGH	23	VGH	VGH
-	200000000000000000000000000000000000000		1						
24	VGH	VGH		24	VGH	VGH	24	VGH	VGH
25	VGH	VGH	12	25	VGH	VGH	25	VGH	VGH
26	VGH	VGH		26	VGH	VGH	26	VGH	VGH
27	DUMMY	NC		27	DUMMY	NC	27	DUMMY	NC
28	VEE	VEE		28	VEE	VEE	28	VEE	VEE
29	VEE	VEE		29	VEE	VEE	29	VEE	VEE
30	VEE	VEE		30	VEE	VEE	30	VEE	VEE
		-	-	_	15/45/10/E	NC NC		National Control of the Control of t	NC
31	DUMMY	NC		_	DUMMY	2.00	31	DUMMY	100
32	SCAN_0_NC	NC		32	SCAN_0_NC	NC	32	SCAN_0_NC	NC
33	SCAN_1_NC	NC .		33	SCAN_1_NC	NC .	33	SCAN_1_NC	NC
34	SCAN 2 NC	NC.		34	SCAN_2_NC	NC	34	SCAN 2 NC	NC
35	SCAN 3 NC	NC		35	SCAN 3 NC	NC	35	SCAN 3 NC	NC
36	SCAN 4 NC	NC	-	36	SCAN 4 NC	NC	36	SCAN 4 NC	NC
		-	-	-			_		NC NC
37	SCAN_5_NC	NC	-	37	SCAN_5_NC	NC	37	SCAN_5_NC	
38	SCAN_6_NC	NC		38	SCAN_6_NC	NC	38	SCAN_6_NC	NC
39	SCAN_7_NC	NC		39	SCAN_7_NC	NC	39	SCAN_7_NC	NC
40					COALL C			COANLO	C4
	SCAN_8	S1		40	SCAN_8	S1	40	SCAN_8	S1
41		S1 S2		40	SCAN_8 SCAN 9	S1 S2	40		S2
41	SCAN_9	S2	62		SCAN_9	S2		SCAN_9	S2
						11222			
41 	SCAN_9 	S2 		41	SCAN_9 	S2 	41 	SCAN_9 	S2 
41  294	SCAN_9  SCAN_262	S2  S255	_	41 !94	SCAN_9  SCAN_262	S2   S255	41  294	SCAN_9  SCAN_262	S2  S255
41 	SCAN_9 	S2 	_	41	SCAN_9 	S2 	41 	SCAN_9 	S2 
41  294	SCAN_9  SCAN_262	S2  S255	2	41 !94	SCAN_9  SCAN_262	S2   S255	41  294	SCAN_9  SCAN_262	S2  S255
41  294 295	SCAN_9  SCAN_262 SCAN_263	S2  S255 S256	2	41 94 95	SCAN_9  SCAN_262 SCAN_263	S2  S255 S256	41  294 295	SCAN_9  SCAN_262 SCAN_263	S2  S255 S256
294 295 296 297	SCAN_9  SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC	S2  S255 S256 NC NC	2 2	94 95 96	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC	S2  S255 S256 NC NC	41  294 295 296 297	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC	S2  S255 S256 NC NC
294 295 296 297 298	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_266_NC	S2  S255 S256 NC NC NC	2 2 2 2	94 95 96 97	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_266_NC	S2 S255 S256 NC NC NC	294 295 296 297 298	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_266_NC	S2  S255 S256 NC NC NC
294 295 296 297 298 299	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_266_NC SCAN_266_NC	S2 S255 S256 NC NC NC NC	2 2 2 2 2	94 95 96 97 98	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_266_NC SCAN_266_NC	S2 S255 S256 NC NC NC NC	294 295 296 297 298 299	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_266_NC SCAN_266_NC	S2  S255 S256 NC NC NC
294 295 296 297 298 299 300	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_266_NC SCAN_266_NC SCAN_268_NC	S2 S255 S256 NC NC NC NC NC NC	2 2 2 2 2 2	94 95 96 97 98 99 800	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_266_NC SCAN_266_NC SCAN_267_NC SCAN_268_NC	S2 S255 S256 NC NC NC NC NC NC NC NC	294 295 296 297 298 299 300	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_266_NC SCAN_266_NC SCAN_266_NC SCAN_268_NC	S2  S255 S256 NC NC NC NC
294 295 296 297 298 299 300 301	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_266_NC SCAN_267_NC SCAN_268_NC SCAN_268_NC	S2  S255 S256 NC NC NC NC NC	2 2 2 2 3 3 3	94 95 96 97 98 99 600	SCAN_8 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_266_NC SCAN_266_NC SCAN_268_NC SCAN_268_NC	S2 S255 S256 NC NC NC NC NC NC NC NC	41  294 295 296 297 298 299 300 301	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_266_NC SCAN_267_NC SCAN_268_NC SCAN_268_NC	\$2  \$255 \$256 NC NC NC NC NC
294 295 296 297 298 299 300 301 302	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_266_NC SCAN_267_NC SCAN_268_NC SCAN_268_NC SCAN_269_NC SCAN_270_NC	\$2  \$255 \$256 NC NC NC NC NC NC	2 2 2 2 3 3 3	94 95 96 97 98 99 800	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_266_NC SCAN_267_NC SCAN_268_NC SCAN_268_NC SCAN_269_NC SCAN_269_NC	S2  S255 S256 NC NC NC NC NC NC	41  294 295 296 297 298 299 300 301 302	SCAN_8 SCAN_262 SCAN_263 SCAN_264_NC SCAN_266_NC SCAN_266_NC SCAN_266_NC SCAN_268_NC SCAN_268_NC SCAN_268_NC	\$2  \$255 \$256 NC NC NC NC NC
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294 295 296 297 298 299 300 301 302 303	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_266_NC SCAN_266_NC SCAN_268_NC SCAN_271_NC SCAN_271_NC	\$2  \$255 \$256 NC NC NC NC NC NC NC NC	2 2 2 2 2 2 3 3 3	94 95 96 97 98 99 100 101 102	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_266_NC SCAN_267_NC SCAN_268_NC SCAN_268_NC SCAN_269_NC SCAN_269_NC	S2 S255 S256 NC	41  294 295 296 297 298 299 300 301 302	SCAN_8 SCAN_262 SCAN_263 SCAN_264_NC SCAN_266_NC SCAN_266_NC SCAN_266_NC SCAN_268_NC SCAN_268_NC SCAN_268_NC	\$2  \$255 \$256 NC NC NC NC NC NC
294 295 296 297 298 299 300 301 302 303 304	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_266_NC SCAN_266_NC SCAN_268_NC SCAN_268_NC SCAN_270_NC SCAN_270_NC SCAN_271_NC DUMMY	\$2  \$255 \$256 NC NC NC NC NC NC NC NC NC	2 2 2 2 2 3 3 3 3 3	94 95 96 97 98 99 00 001 002 003	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_265_NC SCAN_267_NC SCAN_268_NC SCAN_269_NC SCAN_270_NC SCAN_271_NC DUMMY	S2	41  294 295 296 297 298 299 300 301 302 303 303	SCAN_9 SCAN_262 SCAN_263 SCAN_264, NC SCAN_265, NC SCAN_266, NC SCAN_267, NC SCAN_268, NC SCAN_268, NC SCAN_270, NC SCAN_270, NC DUMMY	\$2  \$255 \$256 NC NC NC NC NC NC NC
294 295 296 297 298 299 300 301 302 303 304 305	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_266_NC SCAN_266_NC SCAN_268_NC SCAN_268_NC SCAN_269_NC SCAN_271_NC DUMMY VEE	\$2  \$255 \$256 NC NC NC NC NC NC NC NC NC NC NC	2 2 2 2 2 2 3 3 3 3 3	94 195 196 197 198 199 100 101 102 103 104	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_265_NC SCAN_268_NC SCAN_268_NC SCAN_269_NC SCAN_271_NC DUMMY VEE	S2	41  294 295 296 297 298 299 300 301 302 303 304 305	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_266_NC SCAN_266_NC SCAN_268_NC SCAN_268_NC SCAN_268_NC SCAN_270_NC SCAN_271_NC DUMMY DUMMY	\$2  \$255 \$256 NC NC NC NC NC NC NC NC NC
41 294 295 296 297 298 299 300 301 302 303 304 305 306	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_265_NC SCAN_267_NC SCAN_267_NC SCAN_267_NC SCAN_270_NC SCAN_271_NC DUMMY VEE VEE	\$2  \$255 \$256 NC NC NC NC NC NC NC NC NC NC NC NC NC	2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3	94 95 96 97 98 99 600 601 602 603 604 605	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_265_NC SCAN_266_NC SCAN_266_NC SCAN_269_NC SCAN_269_NC SCAN_271_NC DUMMY VEE	\$2  \$255 \$256 NC NC NC NC NC NC NC NC NC NC NC NC NC	41  294 295 296 297 298 299 300 301 302 303 304 305	SCAN_9 SCAN_262 SCAN_263 SCAN_264 NC SCAN_265 NC SCAN_265 NC SCAN_268 NC SCAN_268 NC SCAN_268 NC SCAN_271 NC DUMMY DUMMY DUMMY	\$2  \$255 \$256 NC NC NC NC NC NC NC NC NC NC NC
294 295 296 297 298 299 300 301 302 303 304 305 306 307	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_265_NC SCAN_268_NC SCAN_267_NC SCAN_271_NC SCAN_271_NC DUMMY VEE VEE	\$2  \$255 \$256 NC NC NC NC NC NC NC NC NC NC NC NC NC	2 2 2 2 3 3 3 3 3 3 3	94 95 96 97 98 99 600 601 602 603 604 605 607	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_266_NC SCAN_266_NC SCAN_267_NC SCAN_271_NC DUMMY VEE VEE	\$2  \$255 \$256 NC NC NC NC NC NC NC NC NC NC NC NC NC	41  294 295 296 297 298 299 300 301 302 303 304 305 306 307	SCAN_9 SCAN_262 SCAN_263 SCAN_264,NC SCAN_265,NC SCAN_266,NC SCAN_268,NC SCAN_268,NC SCAN_271,NC DUMMY DUMMY DUMMY DUMMY	\$2  \$255 \$256 NC NC NC NC NC NC NC NC NC NC NC
294 295 296 297 298 299 300 301 302 303 304 305 306 307 308	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_265_NC SCAN_266_NC SCAN_266_NC SCAN_269_NC SCAN_270_NC SCAN_271_NC DUMMY VEE VEE VEE DUMMY	\$2  \$255 \$256 NC NC NC NC NC NC NC NC NC NC NC NC NC	2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	94 95 96 97 98 99 00 01 02 03 04 05 06 07	SCAN_9 SCAN_262 SCAN_263 SCAN_263 SCAN_265, NC SCAN_265, NC SCAN_267, NC SCAN_268, NC SCAN_269, NC SCAN_270, NC SCAN_271, NC DUMMY VEE VEE DUMMY	\$2  \$255 \$256 NC NC NC NC NC NC NC NC NC VC NC VC NC	41  294 295 296 297 298 299 300 301 302 303 304 305 307 308	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_265_NC SCAN_266_NC SCAN_267_NC SCAN_268_NC SCAN_268_NC SCAN_270_NC SCAN_271_NC DUMMY DUMMY DUMMY	\$2  \$255 \$256 NC NC NC NC NC NC NC NC NC NC NC NC NC
411 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_265_NC SCAN_268_NC SCAN_269_NC SCAN_269_NC SCAN_270_NC SCAN_271_NC DUMMY VEE VEE VEE VEE UMHY VGH	\$2  \$255 \$256 NC NC NC NC NC NC NC NC NC NC NC NC NC	2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	94 95 96 97 98 99 00 01 02 03 04 05 06 07 08	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_265_NC SCAN_267_NC SCAN_268_NC SCAN_269_NC SCAN_271_NC DUMMY VEE VEE VEE VEE UMH VVGH	S2	41  294 295 296 297 298 299 300 301 302 303 304 305 307 308	SCAN_9 SCAN_262 SCAN_263 SCAN_264,NC SCAN_265,NC SCAN_266,NC SCAN_268,NC SCAN_268,NC SCAN_271,NC DUMMY DUMMY DUMMY DUMMY	\$2  \$255 \$256 NC NC NC NC NC NC NC NC NC NC NC NC
294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_266_NC SCAN_266_NC SCAN_269_NC SCAN_269_NC SCAN_270_NC SCAN_271_NC DUMMY VEE VEE DUMMY	\$2  \$255 \$256 NC NC NC NC NC NC NC NC NC NC NC NC NC	2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	94 95 96 97 98 99 00 01 02 03 04 05 06 07 08	SCAN_9 SCAN_262 SCAN_263 SCAN_263 SCAN_265, NC SCAN_265, NC SCAN_267, NC SCAN_268, NC SCAN_269, NC SCAN_270, NC SCAN_271, NC DUMMY VEE VEE DUMMY	\$2  \$255 \$256 NC NC NC NC NC NC NC NC NC VC NC VC NC	41  294 295 296 297 298 299 300 301 302 303 304 305 306 307 308	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_265_NC SCAN_266_NC SCAN_267_NC SCAN_268_NC SCAN_268_NC SCAN_270_NC SCAN_271_NC DUMMY DUMMY DUMMY	\$2  \$255 \$256 NC NC NC NC NC NC NC NC NC NC NC NC NC
294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_265_NC SCAN_268_NC SCAN_269_NC SCAN_269_NC SCAN_270_NC SCAN_271_NC DUMMY VEE VEE VEE VEE UMHY VGH	\$2  \$255 \$256 NC NC NC NC NC NC NC NC NC VEE VEE VEE NC	2 2 2 3 3 3 3 3 3 3 3 3 3	94 95 96 97 98 99 600 601 602 603 604 605 606 607 608	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_265_NC SCAN_267_NC SCAN_268_NC SCAN_269_NC SCAN_271_NC DUMMY VEE VEE VEE VEE UMH VVGH	S2	41  294 295 296 297 298 300 301 302 303 304 305 306 307 308 309 309	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_265_NC SCAN_268_NC SCAN_268_NC SCAN_268_NC SCAN_271_NC DUMMY DUMMY DUMMY DUMMY DUMMY	\$2  \$255 \$256 NC NC NC NC NC NC NC NC NC NC NC NC
294 295 296 297 298 300 301 302 303 304 305 306 307 308 309 310 311	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_265_NC SCAN_266_NC SCAN_266_NC SCAN_269_NC SCAN_270_NC SCAN_271_NC DUMMY VEE VEE VEE DUMMY VGH VGH	\$2 \$255 \$256 NC NC NC NC NC NC NC NC VC NC VEE VEE VEE VEE VGH VGH	22 22 23 33 33 33 33 33 33 33 33 33 33 3	94 95 96 97 98 99 600 601 602 603 604 605 606 607 608 609	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_266_NC SCAN_267_NC SCAN_267_NC SCAN_270_NC SCAN_271_NC DUMMY VEE VEE DUMMY VGH	\$2  \$255 \$256 NC NC NC NC NC NC NC NC NC VEE VEE VEE VEE VGH VGH	41  294 295 296 297 298 300 301 302 303 304 305 306 307 308 309 310 311	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_265_NC SCAN_268_NC SCAN_268_NC SCAN_270_NC SCAN_270_NC DUMMY	\$2  \$255 \$256 NC NC NC NC NC NC NC NC NC NC NC NC NC
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294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 310 311 312 313 314	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_265_NC SCAN_267_NC SCAN_267_NC SCAN_270_NC SCAN_271_NC DUMMY VEE DUMMY VGH VGH VGH VGH VGH VGH VGH U U	\$2  \$255 \$256 NC NC NC NC NC NC NC NC NC NC NC VEE VEE VEE VEE VEE VGH VGH VGH VGH VGL		41 94 95 96 97 98 99 90 90 90 90 90 90 90 90 90	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_266_NC SCAN_268_NC SCAN_268_NC SCAN_270_NC SCAN_271_NC DUMMY VEE DUMMY VGH VGH VGH VGH VGH VGH VGH UMMY VGL	\$2 \$255 \$256 NC	41  294 295 296 297 298 300 301 302 303 304 305 306 307 308 309 310 311 311 312	SCAN_9 SCAN_262 SCAN_263 SCAN_264 NC SCAN_265 NC SCAN_265 NC SCAN_268 NC SCAN_268 NC SCAN_268 NC SCAN_271 NC DUMMY	\$2
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294 295 296 297 298 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_265_NC SCAN_268_NC SCAN_268_NC SCAN_269_NC SCAN_270_NC SCAN_271_NC DUMMY VEE VEE VEE VEE VEE VGH VGH VGH VGH VGH VGL VGL	\$2  \$255 \$256 NC NC NC NC NC NC NC NC NC NC NC VEE VEE VEE VEE VEE VGH VGH VGH VGH VGL		41 94 95 96 97 98 99 00 00 00 00 00 00 00 00 00	SCAN_9 SCAN_262 SCAN_263 SCAN_263, NC SCAN_265, NC SCAN_266, NC SCAN_266, NC SCAN_269, NC SCAN_271, NC SCAN_271, NC DUMMY VEE VEE VEE VEE VEE VGH VGH VGH VGH VGH VGL VGL	\$2 \$255 \$256 NC	41 	SCAN_9 SCAN_262 SCAN_263 SCAN_264 NC SCAN_265 NC SCAN_265 NC SCAN_268 NC SCAN_268 NC SCAN_268 NC SCAN_271 NC DUMMY	\$2
294 295 296 297 298 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_266_NC SCAN_266_NC SCAN_266_NC SCAN_269_NC SCAN_270_NC SCAN_271_NC DUMMY VEE DUMMY VGH VGH VGH VGH VGH VGL	\$2  \$255 \$256 NC NC NC NC NC NC NC NC VEE VEE VEE VEE VGH VGH VGH VGH VGH VGL VGL		41 94 95 96 97 98 99 00 00 00 00 00 00 00 00 00	SCAN_9 SCAN_262 SCAN_263 SCAN_265, NC SCAN_265, NC SCAN_266, NC SCAN_267, NC SCAN_269, NC SCAN_270, NC SCAN_270, NC SCAN_271, NC DUMMY VEE DUMMY VGH VGH VGH VGH VGH VGH VGL	\$2 \$255 \$256 NC	41  294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 315 316	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_265_NC SCAN_266_NC SCAN_268_NC SCAN_268_NC SCAN_270_NC	\$2 \$255 \$256 \$256 \$NC
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411 294 295 296 297 298 300 301 302 303 304 305 306 307 301 311 3112 313 314 315 316 317 318 319	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_265_NC SCAN_268_NC SCAN_268_NC SCAN_269_NC SCAN_271_NC DUMMY VEE VEE VEE DUMMY VGH VGH VGH VGH VGH VGL VGL VGL VGL VGL VDD	\$2 \$255 \$256 NC NC NC NC NC NC NC NC NC VEE VEE VEE VGH VGH VGH VGH VGL VGL VGL VGL VDD		944 956 96 97 98 99 600 601 602 603 604 605 606 607 608 609 610 611 613 614 615 616 617 618 617 618 618 619 619 619 619 619 619 619 619 619 619	SCAN_9 SCAN_262 SCAN_263 SCAN_265,NC SCAN_265,NC SCAN_268,NC SCAN_268,NC SCAN_269,NC SCAN_271,NC DUMMY VEE VEE DUMMY VGH VGH VGH VGH VGH VGL VGL VGL VGL VGL VGL VDD	\$2 \$255 \$256 NC VEE VEE VEE VEE VGH VGH VGH VGH VGL VGL VGL VGL VGL VGD VDD	411 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265 NC SCAN_265 NC SCAN_266_NC SCAN_268_NC SCAN_268_NC SCAN_271_NC DUMMY	\$2 \$255 \$256 \$256 \$NC NC N
411 294 295 296 297 298 299 300 301 302 303 304 305 306 307 311 3112 313 314 315 316 317 318 319 320	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_266_NC SCAN_268_NC SCAN_268_NC SCAN_269_NC SCAN_270_NC SCAN_271_NC DUMMY VEE VEE VEE VEE VEE VGH VGH VGH VGH VGH VGH VGL VGL VGL VDD VSS	\$2 \$255 \$256 NC VEE VEE VEE VGH VGH VGH VGH VGL VGL VGL VGL VGL VDD VSS		944 995 996 997 998 999 900 901 902 903 904 905 908 909 910 911 912 913 914 915 916 917 918 918 919 919 919 919 919 919 919 919	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_265_NC SCAN_268_NC SCAN_268_NC SCAN_269_NC SCAN_270_NC SCAN_271_NC DUMMY VEE VEE VEE VEE VEE VEE VGH VGH VGH VGH VGH VGH VGH VGL VGL VGL VGL VDD VSS	\$2 \$255 \$256 NC	411 294 295 296 296 299 300 301 302 303 304 305 306 307 308 309 310 311 312 312 313 314 315 316 317 318 319 320	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_265_NC SCAN_268_NC SCAN_268_NC SCAN_268_NC SCAN_271_NC DUMMY	\$2 \$255 \$256 NC
411 294 295 296 297 298 299 300 301 302 303 304 305 306 307 311 312 313 314 315 316 317 318 320 321	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_265_NC SCAN_267_NC SCAN_267_NC SCAN_270_NC SCAN_271_NC DUMMY VEE UEE UEE UMMY VGH VGH VGH VGH VGH VGH VGL VGL VGL VGL VDD VDD VDD VSS VSS	\$2 \$255 \$256 NC VEE VEE VGH VGH VGH VGH VGL VGL VGL VDD VDD VSS VSS		941 995 996 997 998 999 600 601 602 603 604 605 608 609 710 711 712 713 714 715 716 717 718 719 719 719 719 719 719 719 719 719 719	SCAN_9	\$2 \$255 \$256 NC	411 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265 NC SCAN_265 NC SCAN_268 NC SCAN_268 NC SCAN_268 NC SCAN_270_NC SCAN_271_NC DUMMY	\$2 \$255 \$256 \$NC
411 294 295 296 297 298 300 301 302 303 304 305 306 307 308 311 312 313 314 315 316 317 318 319 319 320 321 322	SCAN_9 SCAN_262 SCAN_263,NC SCAN_264,NC SCAN_265,NC SCAN_266,NC SCAN_268,NC SCAN_268,NC SCAN_269,NC SCAN_271,NC DUMMY VEE VEE DUMMY VGH VGH VGH VGH VGH VGL VGL VGL VGL VGL VGS VSS VSS MODE	\$2 \$255 \$256 NC NC NC NC NC NC NC NC NC VEE VEE VEE VGH VGH VGH VGH VGL VGL VGL VGD VSS MODE		944 955 966 97 988 999 900 101 102 103 104 105 106 107 108 109 110 111 113 114 115 116 117 118 119 120 121 122	SCAN_9	\$2 \$255 \$256 NC	411 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321	SCAN_9 SCAN_262 SCAN_263 SCAN_263 SCAN_265,NC SCAN_265,NC SCAN_266,NC SCAN_268,NC SCAN_268,NC SCAN_268,NC SCAN_270,NC SCAN_271,NC DUMMY	\$2 \$255 \$256 NC
411 294 295 296 297 298 300 301 302 303 304 305 306 307 308 311 312 313 314 315 316 317 318 319 320 321 322 323	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_265_NC SCAN_268_NC SCAN_268_NC SCAN_269_NC SCAN_270_NC SCAN_271_NC DUMMY VEE VEE VEE VEE VEH VGH VGH VGH VGH VGH VGL VGL VGL VGL VGL VSS VSS VSS MODOE	\$2 \$255 \$256 NC VEE VEE VGH VGH VGH VGH VGL VGL VGL VDD VDD VSS VSS		944 955 966 97 988 999 900 101 102 103 104 105 106 107 108 109 110 111 113 114 115 116 117 118 119 120 121 122	SCAN_9	\$2 \$255 \$256 NC	411 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265 NC SCAN_265 NC SCAN_268 NC SCAN_268 NC SCAN_268 NC SCAN_270_NC SCAN_271_NC DUMMY	\$2 \$255 \$256 \$NC
411 294 295 296 297 298 300 301 302 303 304 305 306 307 308 311 312 313 314 315 316 317 318 319 320 321 322 323	SCAN_9 SCAN_262 SCAN_263,NC SCAN_264,NC SCAN_265,NC SCAN_266,NC SCAN_268,NC SCAN_268,NC SCAN_269,NC SCAN_271,NC DUMMY VEE VEE DUMMY VGH VGH VGH VGH VGH VGL VGL VGL VGL VGL VGS VSS VSS MODE	\$2 \$255 \$256 NC NC NC NC NC NC NC NC NC VEE VEE VEE VGH VGH VGH VGH VGL VGL VGL VGD VSS MODE		944 955 966 97 988 999 900 101 102 103 104 105 106 107 108 109 110 111 113 114 115 116 117 118 119 120 121 122 123	SCAN_9	\$2 \$255 \$256 NC	411 294 295 296 297 298 300 301 302 303 304 305 306 307 308 310 311 312 313 314 315 316 317 318 319 320 321 322	SCAN_9 SCAN_262 SCAN_263 SCAN_263 SCAN_265,NC SCAN_265,NC SCAN_266,NC SCAN_268,NC SCAN_268,NC SCAN_268,NC SCAN_270,NC SCAN_271,NC DUMMY	\$2 \$255 \$256 \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$10
411 294 295 296 297 298 300 301 302 303 304 305 306 307 318 315 316 317 318 319 320 321 322 323 324	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_265_NC SCAN_267_NC SCAN_267_NC SCAN_270_NC SCAN_271_NC DUMMY VEE DUMMY VGH VGH VGH VGH VGH VGH VGL VGL VGL VDD VDD VDD VDD VDS VSS MODE SCAN_270_NC SCAN_270_NC SCAN_271_NC DUMMY VEE VEE DUMMY VEE VEE DUMMY VGH VGH VGH VGH VGH VGH VGH VGH VGL VGL VDD VDD VDD VDD VDD VSS WSS MODE STV2 CPV	\$2 \$255 \$256 NC VEE VGH VGH VGH VGH VGL VGL VGL VDD VDD VSS VSS MODE STV2 CPV		944 959 969 97 98 99 100 102 103 104 105 106 107 118 119 120 121 122 123 124	SCAN_9	\$2 \$255 \$256 NC	411 2944 295 296 297 298 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_265_NC SCAN_268_NC SCAN_268_NC SCAN_268_NC SCAN_270_NC SCAN_271_NC DUMMY	\$2 \$255 \$256 NC
411 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_266_NC SCAN_266_NC SCAN_269_NC SCAN_270_NC SCAN_271_NC DUMMY VEE DUMMY VGH VGH VGH VGH VGH VGL VGL VGL VGL VGL VGL VGL VGS MODE STV2 CPV OE	\$2 \$255 \$256 NC		944 959 969 97 98 99 600 601 602 603 604 605 606 607 608 609 611 612 613 614 615 617 618 619 619 619 619 619 619 619 619 619 619	SCAN_9	\$2 \$255 \$256 NC	411 2944 295 2996 2997 298 2999 3001 3012 3023 3034 305 306 307 308 311 3112 313 3144 315 316 317 318 319 320 321 322 323 324 325	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265 NC SCAN_265 NC SCAN_266 NC SCAN_268 NC SCAN_268 NC SCAN_270 NC S	\$2 \$255 \$256 NC
411 294 295 296 297 298 300 301 302 303 304 305 306 307 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_265_NC SCAN_268_NC SCAN_269_NC SCAN_269_NC SCAN_271_NC DUMMY VEE VEE DUMMY VGH VGH VGH VGH VGH VGL VGL VGL VGL VGL VGL VGL VGS VSS VSS VSS VSS VSS VSS VSS VSS VSS	\$2 \$255 \$256 NC VEE VEE VEE VGH VGH VGH VGH VGL VGL VGL VGL VGD VSS VSS VSS STV2 CPV CPV CPC XAO		944 956 96 97 98 99 90 90 100 100 100 100 100 100 100 10	SCAN_9	\$2 \$255 \$256 NC VEE VEE VEE VGH VGH VGH VGH VGH VGL VGL VGL VGL VGD VSS VSS VSS STV2 CPV CPC XAO	411 294 295 296 297 298 300 301 302 303 304 305 316 317 318 319 320 321 322 323 324 325 326	SCAN_9 SCAN_262 SCAN_263 SCAN_263 SCAN_265 NC SCAN_265 NC SCAN_266 NC SCAN_268 NC SCAN_268 NC SCAN_271 NC DUMMY	\$2 \$255 \$256 \$256 NC
411 294 295 296 297 300 301 302 303 304 305 311 312 313 314 315 316 317 322 323 324 325 326 327	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_265_NC SCAN_268_NC SCAN_268_NC SCAN_270_NC SCAN_271_NC SCAN_271_NC DUMMY VEE VEE VEE VEE VEE VEE VGH VGH VGH VGH VGH VGH VGL VGL VGL VGL VGL VGS VSS MODE STV2 CPV OE XAO LR	\$2 \$255 \$256 NC VEE VEE VEE VEE VGH VGH VGH VGH VGL VGL VGL VGL VGL VGL VDD VSS MODE STV2 CPV		944 956 96 97 98 99 90 90 90 90 90 90 90 90 90 90 90 90	SCAN_9	\$2 \$255 \$256 NC	411 294 295 296 296 299 300 301 302 303 304 305 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 326	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_264_NC SCAN_265_NC SCAN_268_NC SCAN_268_NC SCAN_268_NC SCAN_268_NC SCAN_271_NC DUMMY	\$2 \$255 \$256 \$256 \$NC
411 294 295 296 297 300 301 302 303 304 305 306 307 311 312 313 314 315 316 317 312 323 324 325 326 327 328	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_265_NC SCAN_269_NC SCAN_269_NC SCAN_270_NC SCAN_270_	\$2 \$255 \$256 NC		994 995 996 997 998 999 900 901 903 904 905 908 909 909 909 909 909 909 909 909 909	SCAN_9	\$2 \$255 \$256 NC	411 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265 NC SCAN_265 NC SCAN_266 NC SCAN_268 NC SCAN_268 NC SCAN_267 NC SCAN_270_NC S	\$2 \$255 \$256 NC
411 294 295 296 297 300 301 302 303 304 305 306 307 311 312 313 314 315 316 317 312 323 324 325 326 327 328	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_265_NC SCAN_268_NC SCAN_268_NC SCAN_270_NC SCAN_271_NC SCAN_271_NC DUMMY VEE VEE VEE VEE VEE VEE VGH VGH VGH VGH VGH VGH VGL VGL VGL VGL VGL VGS VSS MODE STV2 CPV OE XAO LR	\$2 \$255 \$256 NC VEE VEE VEE VEE VGH VGH VGH VGH VGL VGL VGL VGL VGL VGL VDD VSS MODE STV2 CPV		994 995 996 997 998 999 900 901 903 904 905 908 909 909 909 909 909 909 909 909 909	SCAN_9	\$2 \$255 \$256 NC	411 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_264_NC SCAN_265_NC SCAN_268_NC SCAN_268_NC SCAN_268_NC SCAN_268_NC SCAN_271_NC DUMMY	\$2 \$255 \$256 \$256 \$NC NC N
294 295 296 297 300 301 302 303 304 305 306 307 308 311 315 316 317 318 319 320 321 322 323 324 325 326 327	SCAN_9 SCAN_262 SCAN_263,NC SCAN_264,NC SCAN_265,NC SCAN_268,NC SCAN_268,NC SCAN_269,NC SCAN_271,NC DUMMY VEE DUMMY VGH VGH VGH VGH VGH VGL	\$2 \$255 \$256 NC VEE VEE VEE VGH VGH VGH VGH VGH VGL VGL VGL VGL VGD VSS MODE STV2 CPV CC XAO LR STYR VCOM		4194 4994 4995 9999 9999 9999 9999 90000 90000 90000 90000 90000 90000 90000 90000 90000 90000 90000 90000 90000 90000 90000 90000 90000 90000 90000 90000 900000 90000 90000 90000 90000 90000 90000 90000 90000 900000 90000 90000 90000 90000 90000 90000 90000 90000 900000 90000 90000 90000 90000 90000 90000 90000 90000 900000 90000 90000 90000 90000 90000 90000 90000 90000 900000 90000 90000 90000 90000 90000 90000 900000 90000 90000 90000 900000 90000 90000 90000 90000 90000 90000 900	SCAN_9	\$2 \$255 \$256 NC	411 2944 2955 2996 2997 298 3003 3014 3055 3066 307 308 309 3110 3111 3122 3133 3144 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329	SCAN_9 SCAN_262 SCAN_263 SCAN_263 SCAN_265,NC SCAN_265,NC SCAN_266,NC SCAN_268,NC SCAN_268,NC SCAN_268,NC SCAN_270,NC SCAN_271,NC DUMMY STV2	\$2 \$255 \$256 NC
294 295 296 297 298 300 301 302 303 305 306 307 310 311 312 313 314 317 318 319 320 321 322 323 324 325 326 327 328 329 320 327 328	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_265_NC SCAN_268_NC SCAN_268_NC SCAN_269_NC SCAN_270_NC SCAN_270_NC SCAN_271_NC DUMMY VEE VEE UEE UEB UMMY VGH VGH UMMY VGH VGH VGH VGH VGH VGL	\$2 \$255 \$256 NC VEE VEE VEE VEE VGH VGH VGH VGH VGL		994 999 999 999 999 999 999 999 999 999	SCAN_9	\$2 \$255 \$256 NC	411 2944 295 296 297 298 300 301 302 303 304 305 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_265_NC SCAN_268_NC SCAN_268_NC SCAN_268_NC SCAN_271_NC DUMMY STV2 DUMMY DU	\$2 \$255 \$256 \$256 \$NC NC N
294 295 296 297 297 300 301 302 303 304 305 306 307 308 310 311 312 313 314 315 317 318 320 321 322 323 324 325 326 327 328 329 329 320 321 322 323 324 325 326 327 327 328 329 329 329 329 329 329 329 329 329 329	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_265_NC SCAN_268_NC SCAN_268_NC SCAN_270_NC SCAN_271_NC DUMMY VEE VEE DUMMY VGH VGH VGH VGH VGH VGH VGL VDD VDD VDD VDD VDD VDD VDD VDD VDD VD	\$2 \$255 \$256 NC		994 999 999 999 999 999 999 999 999 999	SCAN_9	\$2 \$255 \$256 NC	411 2944 2955 2966 2997 298 2999 3000 3011 3022 3033 3044 3055 3066 3077 308 3099 3110 3112 313 3144 3155 3166 3177 318 319 320 3211 3222 3234 3255 3266 3277 328 3299 3300 3331	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_264_NC SCAN_265_NC SCAN_268_NC SCAN_268_NC SCAN_268_NC SCAN_270_NC S	\$2 \$255 \$256 NC
294 295 296 297 298 299 300 301 302 303 308 309 310 311 312 313 315 316 317 322 323 324 325 326 327 328 329 329 320 321 321 322 323 324 325 326 327 327 328 329 329 329 329 329 329 329 329 329 329	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_265_NC SCAN_266_NC SCAN_269_NC SCAN_270_NC SCAN_270_	\$2 \$255 \$256 NC VEE VEE VEE VGH VGH VGH VGH VGH VGL		994 995 997 997 999 999 900 900 900 900	SCAN_9	\$2 \$255 \$256 NC	411 2944 295 2996 2997 298 2999 3001 3014 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 331 332	SCAN_9 SCAN_262 SCAN_263 SCAN_263 SCAN_265 NC SCAN_265 NC SCAN_265 NC SCAN_266 NC SCAN_267 NC SCAN_267 NC SCAN_271 NC DUMMY STY2 RP2 RP2 RP2	\$2 \$255 \$256 NC
294 295 296 297 298 300 303 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 320 321 322 323 324 325 326 327 328 329 329 320 321 322 323 324 325 326 327 328 329 329 329 329 329 329 329 329 329 329	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_265_NC SCAN_265_NC SCAN_268_NC SCAN_268_NC SCAN_270_NC SCAN_271_NC DUMMY VEE VEE DUMMY VGH VGH VGH VGH VGH VGH VGL VDD VDD VDD VDD VDD VDD VDD VDD VDD VD	\$2 \$255 \$256 NC		994 995 997 997 999 999 900 900 900 900	SCAN_9	\$2 \$255 \$256 NC	411 2944 295 296 297 298 300 301 302 303 304 305 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 3322 323 324 325 326 327 328 329 330 331	SCAN_9 SCAN_262 SCAN_263 SCAN_264_NC SCAN_264_NC SCAN_265_NC SCAN_268_NC SCAN_268_NC SCAN_268_NC SCAN_270_NC S	\$2 \$255 \$256 NC





Issued Date: Oct. 22, 2009 CMO Model No.: <u>V315B6 -C02</u>

**Approval** 

#### **SIGNAL**

	DATA1		36	DATA2	- 3	8	DATA3	
NIP.	CELL	INPUT	PIN	CELL	INPUT	PIN	CELL	INPUT
1.	ATST	TEST	1	ATST	TEST	1	ATST	TEST
2	ATST	TEST	2	ATST	TEST	2	ATST	TEST
-	RP1	NC		DUMMY	NC		DUMMY	NC
-	RP2	NC NC	V 1000	DUMMY	NC	-	DUMMY	NC
			2 500		-			-
5	VCOM	VCOM	5	VCOM	VCOM	- 5	TO THE SHOW I	VCOM
6	VCOM	VCOM	6	VCOM	VCOM	6	VCOM	VCOM
7	STVR	STVR	7	DUMMY	NC	7	DUMMY	NC
	LR	LR	-	DUMMY	NC		DUMMY	NC
-	XAO	XAO	2	DUMMY	NC	-	DUMMY	NC
-		200	2	1.0000000000000000000000000000000000000	0.0000000		A-10-2-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	
10	OE	OE	10	DUMMY	NC	10	DUMMY	NC
11	CPV	CPV	11	DUMMY	NC	11	DUMMY	NC
12	STV1	STV1	12	DUMMY	NC	12	DUMMY	NC
13	MODE	MODE	13	DUMMY	NC	13	DUMMY	NC
-	VSS	VSS	× 100000	DUMMY	NC	-	DUMMY	NC
				Contract Con		-		
15	VSS	VSS		DUMMY	NC		DUMMY	NC
16	VDD	VDD	16	DUMMY	NC	16	DUMMY.	NC
17	VDD	VDD	17	DUMMY	NC	17	DUMMY	NC
18	DUMMY	NC	18	DUMMY	NC		DUMMY	NC
-	VGL	VGL		DUMMY	NC		DUMMY	NC
	200 6000			VAAA WAAA		-		-
	VGL	VGL	2	DUMMY	NC		DUMMY	NC
	VGL	VGL	21	DUMMY	NC	21	DUMMY	NC
22	DUMMY	NC	22	DUMMY	NC	22	DUMMY	NC
23	VGH	VGH	23	DUMMY	NC	23	DUMMY	NC
-	VGH	VGH	10000	DUMMY	NC	24	DUMMY	NC
		X		TO STOCK STOCK		70 77 00		
	VGH	VGH	2	DUMMY	NC	25	DUMMY	NC
26	DUMMY	NC		DUMMY	NC	_ 26	DUMMY	NC
27	VEE	VEE	27	DUMMY	NC	27	DUMMY	NC
28	VEE	VEE	28	DUMMY	NC	28	DUMMY	NC
-	VEE	VEE	2	DUMMY	NC	-	DUMMY	NC
-	William Co.	×	2	D. La Sallana Cont.		-		2000
-	DUMMY	NC		DUMMY	NC	30	DUMMY	NC
31	VGL	VGL	31	DUMMY	NC	31	DUMMY	NC
32	VGL	VGL	32	DUMMY	NC	32	DUMMY	NC
33	DUMMY	NC	33	DUMMY	NC	- 33	DUMMY	NC
	VCOM	VCOM	X	VCOM	VCOM	34		VCON
-			2 20772		-	-		-
	VCOM	VCOM	2.00	VCOM:	VCOM	35	VCOM	VCON
-	DUMMY	NC	36	DUMMY	NC	36	DUMMY	NC
37	VCOM	VCOM	37	VCOM:	VCOM	37	VCOM	VCOM
38	VCOM	VCOM	38	VCOM:	VCOM	38	VCOM	VCON
1000	REP	NC	2	REP	NC	-	REP	NC
-	DUMMY	NC		DUMMY	NC		DUMMY	NC
1000			-		4 10 10 10			- C
-	DUMMY.	NC		DUMMY	NC	0.0	DUMMY.	NC
42	DATA_1_NC	NC	42	DATA_1	D1	42	DATA_1	D1
43	DATA_2_NC	NC	43	DATA_2	D2	43	DATA_2	D2
-	DATA 3 NC	NC	2	DATA 3	D3	44	DATA 3	D3
	DATA 4	D1	1	DATA 4	D4		DATA_4	D4
45	DATA_4	DI	45	DATA_4	D4	45	DATA_4	D4
,	3	330	28	3	5000			
	33.0	122	3338	33.00	3946		7.0	
22	DATA_681	D678	722	DATA_681	D681	722	DATA_681	D681
-	DATA 682	D679		DATA 682	D682		DATA 682	D682
		D680		DATA_683	D683		DATA_683	D683
100	DATA 693	0000	1 / 24	DWIW-003	100000000000000000000000000000000000000	-		-
	DATA_683	DOOR	-	DATA COL		1 7.25	DATA_684	D684
25	DATA_684	D681	725	DATA_684	D684	1		
25		D681 NC	725	DATA_684 DUMMY	D684 NC	1	DUMMY	NC
25 26	DATA_684		725 726	-		726	DUMMY DUMMY	NC NC
25 26 27	DATA_684 DUMMY DUMMY	NC NC	725 726 727	DUMMY DUMMY	NC NC	726 727	DUMMY	NC
25 26 27 28	DATA_684 DUMMY DUMMY REP	NC NC NC	725 726 727 728	DUMMY DUMMY REP	NC NC NC	726 727 728	DUMMY REP	NC NC
25 26 27 28 29	DATA_684  DUMMY  DUMMY  REP  DUMMY	NC NC NC	725 726 727 728 729	DUMMY DUMMY REP DUMMY	NC NC NC	726 727 728 729	DUMMY REP DUMMY	NC NC
25 26 27 28 29 30	DATA_684 DUMMY DUMMY REP DUMMY VCOM	NC NC NC NC VCOM	725 726 727 728 729 730	DUMMY DUMMY REP DUMMY VCOM	NC NC NC NC VCOM	726 727 728 729 730	DUMMY REP DUMMY VCOM	NC NC NC VCOM
25 26 27 28 29 30	DATA_684  DUMMY  DUMMY  REP  DUMMY	NC NC NC	725 726 727 728 729 730	DUMMY DUMMY REP DUMMY	NC NC NC	726 727 728 729 730	DUMMY REP DUMMY	NC NC
25 26 27 28 29 30	DATA_684  DUMMY  DUMMY  REP  DUMMY  VCOM  VCOM	NC NC NC NC VCOM VCOM	725 726 727 728 729 730 731	DUMMY DUMMY REP DUMMY VCOM VCOM	NC NC NC NC VCOM VCOM	726 727 728 729 730 731	DUMMY REP DUMMY VCOM VCOM	NC NC NC VCOM VCOM
25 26 27 28 29 30 31	DATA_684 DUMMY DUMMY REP DUMMY VCOM VCOM DUMMY	NC NC NC NC VCOM VCOM NC	725 726 727 728 729 730 731 732	DUMMY DUMMY REP DUMMY VCOM VCOM DUMMY	NC NC NC NC VCOM VCOM NC	726 727 728 729 730 731 732	DUMMY REP DUMMY VCOM VCOM DUMMY	NC NC NC VCOM VCOM
25 26 27 28 29 30 31 32 33	DATA_684  DUMMY  DUMMY  REP  DUMMY  VCOM  VCOM  DUMMY  DUMMY  DUMMY	NC NC NC NC VCOM VCOM NC NC	725 726 727 728 729 730 731 732 733	DUMMY DUMMY REP DUMMY VCOM VCOM DUMMY DUMMY	NC NC NC NC VCOM VCOM NC NC	726 727 728 729 730 731 732 733	DUMMY REP DUMMY VCOM VCOM DUMMY DUMMY	NC NC NC VCOM VCOM NC NC
725 726 727 728 730 731 732 733	DATA_684  DUMMY  DUMMY  REP  DUMMY  VCOM  VCOM  DUMMY  DUMMY  DUMMY  DUMMY	NC NC NC NC VCOM VCOM NC NC	725 726 727 728 729 730 731 732 733 734	DUMMY DUMMY REP DUMMY VCOM VCOM DUMMY DUMMY DUMMY DUMMY	NC NC NC VCOM VCOM NC NC	726 727 728 729 730 731 732 733 734	DUMMY REP DUMMY VCOM VCOM DUMMY DUMMY DUMMY	NC NC NC VCOM VCOM NC NC
725 726 727 728 730 731 732 733	DATA_684  DUMMY  DUMMY  REP  DUMMY  VCOM  VCOM  DUMMY  DUMMY  DUMMY	NC NC NC NC VCOM VCOM NC NC	725 726 727 728 729 730 731 732 733 734	DUMMY DUMMY REP DUMMY VCOM VCOM DUMMY DUMMY	NC NC NC NC VCOM VCOM NC NC	726 727 728 729 730 731 732 733 734	DUMMY REP DUMMY VCOM VCOM DUMMY DUMMY	NC NC NC VCOM VCOM NC NC
25 26 27 28 30 31 32 33 34	DATA_684  DUMMY  DUMMY  REP  DUMMY  VCOM  VCOM  DUMMY  DUMMY  DUMMY  DUMMY	NC NC NC NC VCOM VCOM NC NC	725 726 727 728 729 730 731 732 733 734 735	DUMMY DUMMY REP DUMMY VCOM VCOM DUMMY DUMMY DUMMY DUMMY	NC NC NC VCOM VCOM NC NC	726 727 728 729 730 731 732 733 734 735	DUMMY REP DUMMY VCOM VCOM DUMMY DUMMY DUMMY	NC NC NC VCON VCON NC NC
725 726 727 728 730 731 732 733 734 735	DATA_684  DUMMY  DUMMY  REP  DUMMY  YCOM  VCOM  DUMMY  DUMMY  DUMMY  DUMMY  DUMMY  DUMMY  DUMMY	NC NC NC VCOM VCOM NC NC NC NC NC NC NC NC	725 726 727 728 729 730 731 732 733 734 735 736	DUMMY DUMMY REP DUMMY VCOM VCOM DUMMY DUMMY DUMMY DUMMY DUMMY DUMMY	NC NC NC VCOM VCOM NC NC NC NC NC NC	726 727 728 729 730 731 732 733 734 735 736	DUMMY REP DUMMY VCOM VCOM DUMMY DUMMY DUMMY DUMMY DUMMY DUMMY	NC NC VCOM VCOM NC NC NC NC
725 726 727 728 730 731 732 733 734 735 736	DATA_684  DUMMY  DUMMY  REP  DUMMY  YCOM  YCOM  DUMMY	NC NC NC VCOM VCOM NC NC NC NC NC NC NC NC NC	725 726 727 728 729 730 731 732 733 734 735 736	DUMMY DUMMY REP DUMMY VCOM VCOM DUMMY DUMMY DUMMY DUMMY DUMMY DUMMY DUMMY	NC NC VCOM VCOM NC NC NC NC NC NC NC NC NC	726 727 728 729 730 731 732 733 734 735 736	DUMMY REP DUMMY VCOM VCOM DUMMY DUMMY DUMMY DUMMY DUMMY DUMMY DUMMY DUMMY	NC NC VCON VCON NC NC NC NC NC
725 726 727 728 730 731 732 734 735 736 737 738	DATA_684  DUMMY  DUMMY  REP  DUMMY  YCOM  YCOM  DUMMY  DUMMY	NC NC NC VCOM VCOM NC VCOM	725 726 727 728 729 730 731 732 733 734 735 736 737	DUMMY DUMMY REP DUMMY VCOM VCOM DUMMY DUMMY DUMMY DUMMY DUMMY DUMMY DUMMY DUMMY DUMMY	NC NC VCOM VCOM NC	726 727 728 729 730 731 732 733 734 735 736 737	DUMMY REP DUMMY VCOM VCOM DUMMY DUMMY DUMMY DUMMY DUMMY DUMMY DUMMY DUMMY DUMMY	NC NC VCOM NC
[25] [26] [27] [28] [30] [31] [32] [33] [34] [35] [36] [37]	DATA_684  DUMMY  DUMMY  REP  DUMMY  YCOM  YCOM  DUMMY	NC NC NC VCOM VCOM NC NC NC NC NC NC NC NC NC	725 726 727 728 729 730 731 732 733 734 735 736 737	DUMMY DUMMY REP DUMMY VCOM VCOM DUMMY DUMMY DUMMY DUMMY DUMMY DUMMY DUMMY	NC NC NC VCOM NC	726 727 728 729 730 731 732 733 734 735 736 737	DUMMY REP DUMMY VCOM VCOM DUMMY DUMMY DUMMY DUMMY DUMMY DUMMY DUMMY DUMMY	NC NC VCOM VCOM NC NC NC NC
725 726 727 728 730 731 732 733 734 735 736 737 738	DATA_684  DUMMY  DUMMY  REP  DUMMY  YCOM  YCOM  DUMMY  DUMMY	NC NC NC VCOM VCOM NC VCOM	725 726 727 728 729 730 731 732 733 734 735 736 737 738 739	DUMMY DUMMY REP DUMMY VCOM VCOM DUMMY DUMMY DUMMY DUMMY DUMMY DUMMY DUMMY DUMMY DUMMY	NC NC VCOM VCOM NC	726 727 728 729 730 731 732 733 734 735 736 737 738 739	DUMMY REP DUMMY VCOM VCOM DUMMY DUMMY DUMMY DUMMY DUMMY DUMMY DUMMY DUMMY DUMMY	NC NC VCOM NC





**Approval** 

0	DATA4	- 1	1	DATA5			DATA6	
PIN	CELL	INPUT	PIN	CELL	INPUT	PIN	CELL	INPUT
1	ATST	TEST	X	ATST	TEST	1		TEST
2		3	200	ATST		500		
-	ATST	TEST	2	12.112.002.005	TEST		200000000000000000000000000000000000000	TEST
-	DUMMY	NC	2	DUMMY	NC	_	DUMMY	NC
	DUMMY	NC	5	DUMMY	NC	200	DUMMY	NC
5	VCOM	VCOM	5	VCOM	VCOM	5	VCOM	VCOM
6	VCOM	VCOM	6	VCOM	VCOM	6	VCOM	VCOM
7	DUMMY	NC	7	DUMMY	NC	7	DUMMY	NC
8	DUMMY	NC	8	DUMMY	NC	8	DUMMY	NC
9	DUMMY	NC	X CO	DUMMY	NC	9	DUMMY	NC
	DUMMY	NC NC	2	DUMMY	NC	10000	DUMMY	NC
1000		NC NC		DUMMY	NC NC		DUMMY	NC NC
11	DUMMY	1000	11		5 5 5 5 7	11	707000000	0.007
12	DUMMY	NC	8 10000	DUMMY	NC	12	DUMMY	NC
13	DUMMY	NC	2 (300)	DUMMY	NC	-	DUMMY	NC
14	DUMMY	NC	14	DUMMY	NC	14	DUMMY	NC
15	DUMMY	NC	15	DUMMY	NC	15	DUMMY	NC
16	DUMMY.	NC	16	DUMMY	NC	16	DUMMY	NC
17	DUMMY	NC	2 2 2 2 2 2 2	DUMMY	NC	17	DUMMY	NC
18	DUMMY	NC NC	1307.00	DUMMY	NC	18	DUMMY	NC
19	DUMMY	NC NC	1	7 7 7 TO	NC NC	500 5000	77770711111	NC NC
-		30000	2 2 2 2 2 2	DUMMY	2 2 2 2 2 2	19	DUMMY	11 0 00 1
20	DUMMY	NC .	20	DUMMY	NC	20	DUMMY	NC
21	DUMMY	NC	X	DUMMY	NC	21	DUMMY	NC
22	DUMMY	NC	22	DUMMY	NC	22	DUMMY	NC
23	DUMMY	NC	23	DUMMY	NC	23	DUMMY	NC
24	DUMMY.	NC	24	DUMMY	NC	24	DUMMY	NC
25	DUMMY	NC	25	DUMMY	NC	25	DUMMY	NC
26	DUMMY	NC	2	DUMMY	NC	-	DUMMY	NC
27	DUMMY	NC NC	5 100 100	DUMMY	NC NC	27	DUMMY	NC NC
-	7070000000	1	2	244444	2 2 2 2 2 2	-		
28	DUMMY	NC	2 00000	DUMMY	NC		DUMMY	NC
29	DUMMY	NC	29	DUMMY	NC	29	DUMMY	NC
30	DUMMY	NC	30	DUMMY	NC	30	DUMMY	NC
31	DUMMY	NC	31	DUMMY	NC	31	DUMMY	NC
32	DUMMY	NC	32	DUMMY	NC	32	DUMMY	NC
33	DUMMY	NC	33	DUMMY	NC	33	DUMMY	NC
34	VCOM	VCOM	34	VCOM	VCOM	34	LANCE CONTROL OF THE PARTY OF T	VCOM
-		3	2 2000		-	-	4.2.2.2.2.2	_
35	VCOM	VCOM	35	VCOM:	VCOM	35	VCOM	VCOM
36	DUMMY	NC	1	DUMMY	NC		DUMMY	NC
37	VCOM	VCOM	37	VCOM:	VCOM	37	VCOM	VCOM
38	VCOM	VCOM	38	VCOM	VCOM	38	VCOM	VCOM
39	REP	NC	39	REP	NC	39	REP	NC
40	DUMMY	NC	40	DUMMY	NC	40	DUMMY	NC
41	DUMMY	NC	A 50000	DUMMY	NC	41	DUMMY.	NC
_	DATA 1	D1	42			42		D1
42	70.000-0	-	- COST	DATA_1	D1	22 - 22 -	DATA_1	2 STO 5 S
43	DATA_2	D2		DATA_2	D2	43	DATA_2	D2
44	DATA_3	D3	44	DATA_3	D3	44	DATA_3	D3
45	DATA_4	D4	45	DATA_4	D4	45	DATA_4	D4
322		0.00	38.00	38.0	1000	(302)	73.0	50
1.2	7.7	1.75	33.27	3330	744		94.00	727
	DATA 681	D681	7	DATA_681	D681	_	DATA_681	D681
	DATA 682	D682		DATA 682	D682		DATA 682 NC	NC
_	DATA_683	D683		DATA_683	D683		DATA 683 NC	NC
	DATA_684	D684			D684	-	DATA_684 NC	NC NC
_				DATA_684	1707/7/A			_
	DUMMY	NC	2	DUMMY	NC		DUMMY	NC
727	DUMMY	NC	727	DUMMY	NC	727	DUMMY	NC
728	REP	NC	728	REP	NC	728	REP	NC
-	DUMMY	NC	729	DUMMY	NC		DUMMY	NC
	VCOM	VCOM	-	VCOM	VCOM		VCOM	VCOM
-	VCOM	VCOM	2	VCOM	VCOM		VCOM	VCOM
_		×	2 2000000	500 4 To 300 To	-			
-	DUMMY.	NC NC		DUMMY	NC NC		SCAN-Gate	VGL
	DUMMY	NC		DUMMY	NC		DUMMY	NC
734	DUMMY:	NC	734	DUMMY	NC	734	G1	NC
735	DUMMY	NC	735	DUMMY	NC	735	G2	NC
736	DUMMY	NC	736	DUMMY	NC	736	RP2	NC
	DUMMY	NC	1	DUMMY	NC	-	RP1	NC
100	VCOM	VCOM		VCOM	VCOM		VCOM	VCOM
738		- Company	S Comments		VCOM		VCOM	VCOM
-	MCOM	IVCOM 1						
739	VCOM	VCOM	20000000	VCOM			100 T 100 Y 100 T 14	
739 740	VCOM ATST ATST	TEST TEST	740	ATST ATST	TEST TEST	740	ATST ATST	TEST

Note1: NC is CMO reserve.



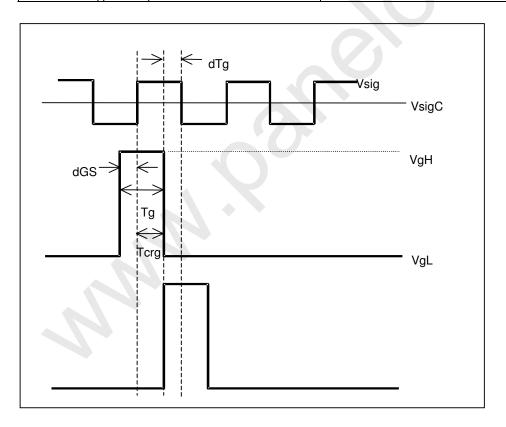


**Approval** 

## 3.3 Operating condition

The following table describes operating condition at CMO cell inspection

Item		Cell Inspection Condition
Gate	Vgh	23.0V
	Vgl	-5.5V
	dGS	-1.2us
	dTg1	4.7us
	Tg(Gate On Time)	14.8us
	Tcrg(Writing Time)	14.8us
Frame Fre	equency	60Hz
Signal	(Black) Vsig Center	8.78V
	(White) Vsig Center	8.74V
Common	Vcom Center	8.1V
	Vcom Amplitude	0.00V
	Vcom Adjustment	±0.5V
LC	(Black)	0.77V
	(White)	8.14V







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#### 4.0 ABSOLUTE RATINGS OF ENVIRONMENT

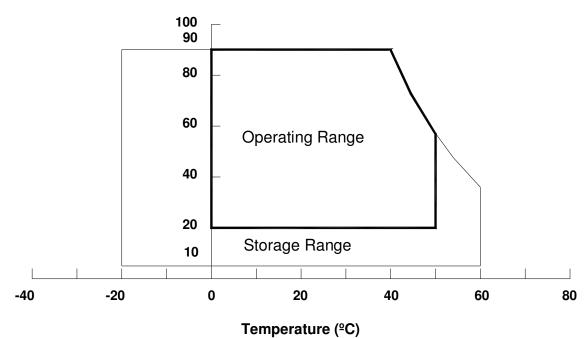
#### 4.1 ABSOLUTE RATINGS OF ENVIRONMENT( BASED on LCD MODULE V315B6-L01)

Item	Symbol	Value		Unit	Note
literii	Symbol	Min.	Max.	Offic	INOLE
Storage Temperature	T <sub>ST</sub>	-20	+60	∘C	(1)
Operating Ambient Temperature	$T_{OP}$	0	+50	ºC	(1), (2), (3)

Note (1) Temperature and relative humidity range is shown in the figure below.

- (a) 90 %RH Max. (Ta  $\leq$  40  $^{\circ}$ C).
- (b) Wet-bulb temperature should be 39  $^{\circ}$ C Max. (Ta > 40  $^{\circ}$ C).
- (c) No condensation.
- Note (2) The maximum operating temperature is based on the test condition that the surface temperature of display area is less than or equal to 65 °C with LCD module alone in a temperature controlled chamber. Thermal management should be considered in final product design to prevent the surface temperature of display area from being over 65 °C. The range of operating temperature may degrade in case of improper thermal management in final product design.
- Note (3) The rating of environment is based on LCD module. Leave LCD cell alone, this environment condition can't be guaranteed. Except LCD cell, the customer has to consider the ability of other parts of LCD module and LCD module process.

### **Relative Humidity (%RH)**







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- **Packaging** 5.0
- 5.1 Label

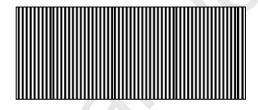
#### **5.1.1 PANEL LABEL**



T6243036NY01

#### **5.1.2 DENSE BOX AND CARTON LABEL**

Model Name	V315B6-C02
Panel Type	315WX01
Quantity	22
Case ID	(CMO internal define)
Note1	Funai model no.:TLCD10CME011



XXXXXXXXXXXXXXX

#### **5.2 PACKING SPECIFICATIONS**

- (1) 22 LCD TV Panels / 1 Box
- (2) Dense box dimensions: 810(L) X 510 (W) X 156 (H)
- (3) Weight: approximately 33.5Kg (22 panels per box)

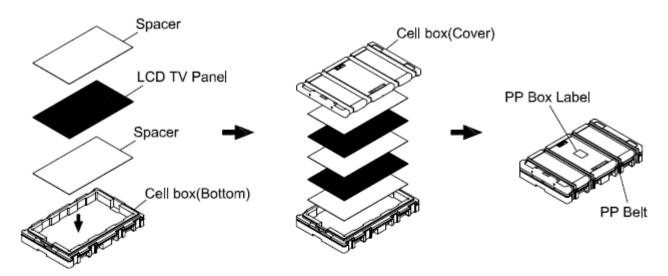


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#### **5.3 PACKING METHOD**

Figures 5-1 and 5-2 are the packing method

Box dimensions: 815(L)x510(W)x156(H)mm Weight: Approx.33.5Kg(22 panels per box)



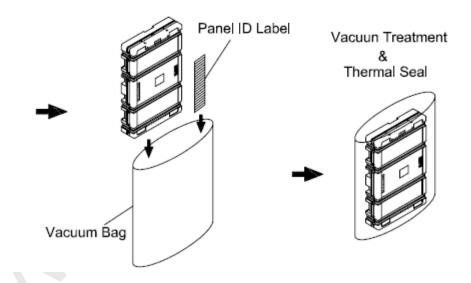


Figure.5-1 packing method



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Weight: Approx.554 Kg(308 panels per Steel)

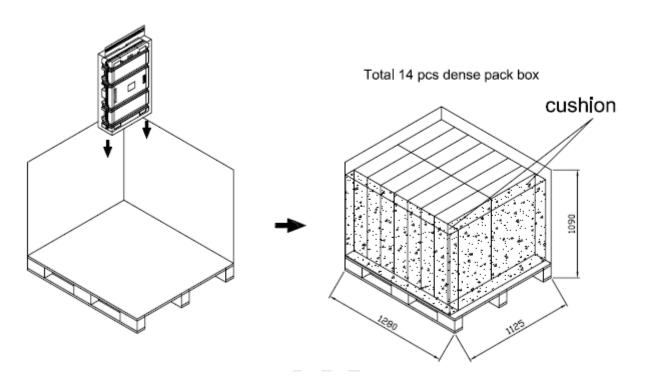


Figure.5-2 packing method





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#### 6.0 Others

If any doubt arises in relation to items not defined in this agreement or any articles in this agreement, both parties shall discuss it with sincerity and arrive at a mutual decision.

\*\*\*\*\* End Of Page \*\*\*\*\*

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